

MATHEMATICS (BS)

Mathematics

*Suggested Four-Year Flowcharts are planning guides and do not represent a required course sequence.
Courses may be completed in a different order, provided requisite requirements are satisfied.*

First Year

Term 1		Units
MATH 1261	Calculus I (2) ¹	4
CSC 1001 & 1001L	Fundamentals of Computer Science and Fundamentals of Computer Science Laboratory	4
PHYS 1141	General Physics I (5A & 5C) ¹	4
General Education Requirement (1A)		3
Units		15

Term 2		Units
MATH 1151	Linear Algebra	3
MATH 1262	Calculus II	4
CSC 2001 & 2001L or CSC 2600 or MATH 3681 or PHYS 4202 or STAT 2610	Data Structures or Computing with Data or Mathematical Programming or Computational Physics or Introduction to Probability and Simulation	3-4
General Education Requirement (1C)		3
Units		13

Second Year

Term 1		Units
MATH 2001	Mathematics Orientation	1
MATH 2031	Transition to Advanced Mathematics	3
MATH 2263	Calculus III	3
STAT 1510	Statistics I	3
General Education Requirement (1B)		3
General Education Requirement		3
Units		16

Term 2		Units
MATH 2343	Differential Equations	3
MATH 3152	Advanced Linear Algebra	4
General Education Requirement		3
General Education Requirement		3
Free Elective ⁶		3
Units		16

Third Year

Term 1		Units
MATH 3051 or MATH 3111 or MATH 3301	Combinatorics I (Upper-Division 2/5) ¹ or Number Theory or Complex Analysis	3
MATH 4201	Abstract Algebra I	4
Track Elective ^{2, 3, 4, 5}		3
General Education Requirement		3
Free Elective ⁶		3
Units		16

Term 2		Units
MATH 4202	Abstract Algebra II	3
Track Elective ^{2, 3, 4, 5}		3
Track Elective ^{2, 3, 4, 5}		3
General Education Requirement		3
General Education Requirement		3
Units		15

Fourth Year

Term 1		Units
MATH 4264	Real Analysis I	4

MATH 4463 or MATH 4464	Senior Project Seminar or Senior Project Applied Seminar	3
Track Elective ^{2, 3, 4, 5}		3
General Education Requirement		3
Units		13
Term 2		
Track Elective ^{2, 3, 4, 5}		3
Track Elective ^{2, 3, 4, 5}		3
Track Elective ^{2, 3, 4, 5}		3-4
General Education Requirement		3
Free Elective ⁶		0-6
Units		16
Total Units		120

¹ Required in Major or Support; also satisfied General Education (GE) requirement.

² A maximum of 14 units may be at the 1000-2000-3000 level.

³ A maximum of 4 units may be at the 1000-2000 level.

⁴ A maximum of 8 units may be from non-MATH prefix courses.

⁵ Courses can only be used once for major degree credit.

⁶ If a General Education (GE) course is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.